Kegco
KRG

6655

VOLTAGE REGULATED POWER SUPPLY

MODEL KR6
MODEL KR6M*

SERIAL A-. 5829

KEPCO LABORATORIES
131 - 38 Sanford Avenue
Flushing 55, New York

KEPCO LABORATORIES
131 - 38 Sanford Avenue
Flushing 55, New York

VOLTAGE REGULATED POWER SUPPLY

MODEL KR6
MODEL KR6M*

SPECIFICATIONS:

DC OUTPUT VOLTAGE

VOLTAGE: 195-305 volts continuously variable.

CURRENT: 0-600 milliamperes continuous duty.

REGULATION: In the range 195-305 volts the output voltage variation is less than 0.2 volts for line fluctuation from 105 - 125 volts and less than 0.2 volts for load variations from minimum to maximum current.

RIPPLE VOLTAGE: The ripple voltage is less than 5 millivolts RMS under any condition of loading and line voltage within the limits specified above.

AC OUTPUT VOLTAGES

VOLTAGE: Two 6.3 volts, unregulated, and isolated from chassis and DC output.

CURRENT: 10 amperes maximum each, may be operated in series or parallel. For series operation, 12.6 volts at 10 amperes, join terminals 5 to 6 and connect to 4 and 7. For parallel operation, 6.3 volts at 20 amperes, join terminals 4 to 6 and terminals 5 to 7 and connect to either pair.

FUSE PROTECTION: Input fuse and DC output fuses on front panel.

OUTPUT TERMINATIONS: The DC and AC output terminals are brought out to a barrier strip on the rear of the chassis. Either positive or negative terminal of the DC supply may be grounded. A terminal is provided on the barrier strip for this purpose. Two blank terminals are also provided.

*METERS: Voltmeter: 0-500 volts, 3-1/2" rectangular.

Milliameter: 0-600 milliamperes, 3-1/2" rectangular.

CONTROLS: Power on-off switch and DC on-off switch on front panel. DC output control - screwdriver locking type mounted at the rear of the chassis.

PHYSICAL SPECIFICATIONS: Rack panel construction. Panel height 10-1/2", width 19", depth 13", color gray. This unit is designed for relay rack mounting.

OPERATING INSTRUCTIONS: The Kepco Model KR6, KR6M Regulated Power Supply is shipped with all tubes in place and is ready for operation.

PROCEDURE FOR TURNING ON POWER SUPPLY:

Turn on the AC power switch and allow the power supply 1/2 minute warm up time for the time delay relay to operate. Turn on the DC output switch to apply the regulated voltage to the load.

The time delay relay in this unit is a thermal type. When the thermal time delay relay closes, an auxiliary double pole-double throw relay is activated. One half of this relay removes the heater voltage from the time delay relay. The other half of the relay closes the primary circuit of the high

voltage plate transformer. In the event that the line voltage should fail momentarily, this double pole-double throw relay will be de-energized. When the line voltage is again turned on, the DC voltage will not re-appear for approximately 30 seconds.

To adjust the DC output voltage to any setting within the range of the instrument, loosen the locking nut on voltage control. Set the control to the desired voltage and then tighten the locking nut.

MAINTENANCE: The components of the Model KR6, KR6M Regulated Power Supply have been selected and tested to provide long and trouble-free operating life. The only service necessary should be the replacement of vacuum tubes. The location of the tubes is clearly marked on the chassis.

REPAIRS: Should any trouble develop in the instrument, it may be serviced with the aid of the schematic diagram. Major repairs, however, are usually handled by the factory.

Under no circumstances should the instrument be returned to the factory without proper authorization and shipping instructions. In any correspondence with the factory concerning repairs, the type and serial number of the instrument must be given together with a description of the trouble encountered.

PARTS LIST
MODEL KR6, KR6M*

C1	- 8	MFD	1000 WV	
C2	- 8	MFD	1000 WV	
C3	- 8	MFD	1000 WV	
C4	- 8	MFD	1000 WV	
C5	- 8	MFD	1000 WV	
C6	- 8	MFD	1000 WV	
C7	- 4	MFD	1000 WV	
C8	- 0.001	MFD	500 WV	
C9	- 0.1	MFD	1000 WV	
C10	- 0.1	MFD	600 WV	
C11	- 0.1	MFD	600 WV	
C12	- 0.25	MFD	600 WV	
F1	- 8 Ampere fuse			
F2	- 3/4 Ampere fuse			
*M1	- Milliammeter 0-100 MA DC			
*M2	- Voltmeter 0-500 V DC			
PL1	- Neon Lamp NE51			
PL2	- Neon Lamp NE51			
R1	- 250 K 2 watt Pot			
R2	- 30 K 10 watt			
R3	- 50 K 10 watt			
R4	- 100 K 20 watt			
R5	- 100 Ohm 1 watt			
R6	- 100 Ohm 1 watt			
R7	- 100 Ohm 1 watt			
R8	- 100 Ohm 1 watt			
R9	- 100 Ohm 1 watt			
R10	- 100 Ohm 1 watt			
R11	- 100 Ohm 1 watt			
R12	- 10 Meg 1 watt			
R13	- 100 Ohm 1 watt			
R14	- 100 Ohm 1 watt			
R15	- 100 Ohm 1 watt			
R16	- 100 Ohm 1 watt			
R17	- 100 Ohm 1 watt			
R18	- 100 Ohm 1 watt			
R19	- 100 Ohm 1 watt			
R20	- 47 Ohm 1 watt			
R21	- 47 Ohm 1 watt			
R23	- 47 Ohm 1 watt			
R33	- 47 Ohm 1 watt			
R34	- 47 Ohm 1 watt			

PARTS LIST
MODEL KM-1, KM-1* (cont.)

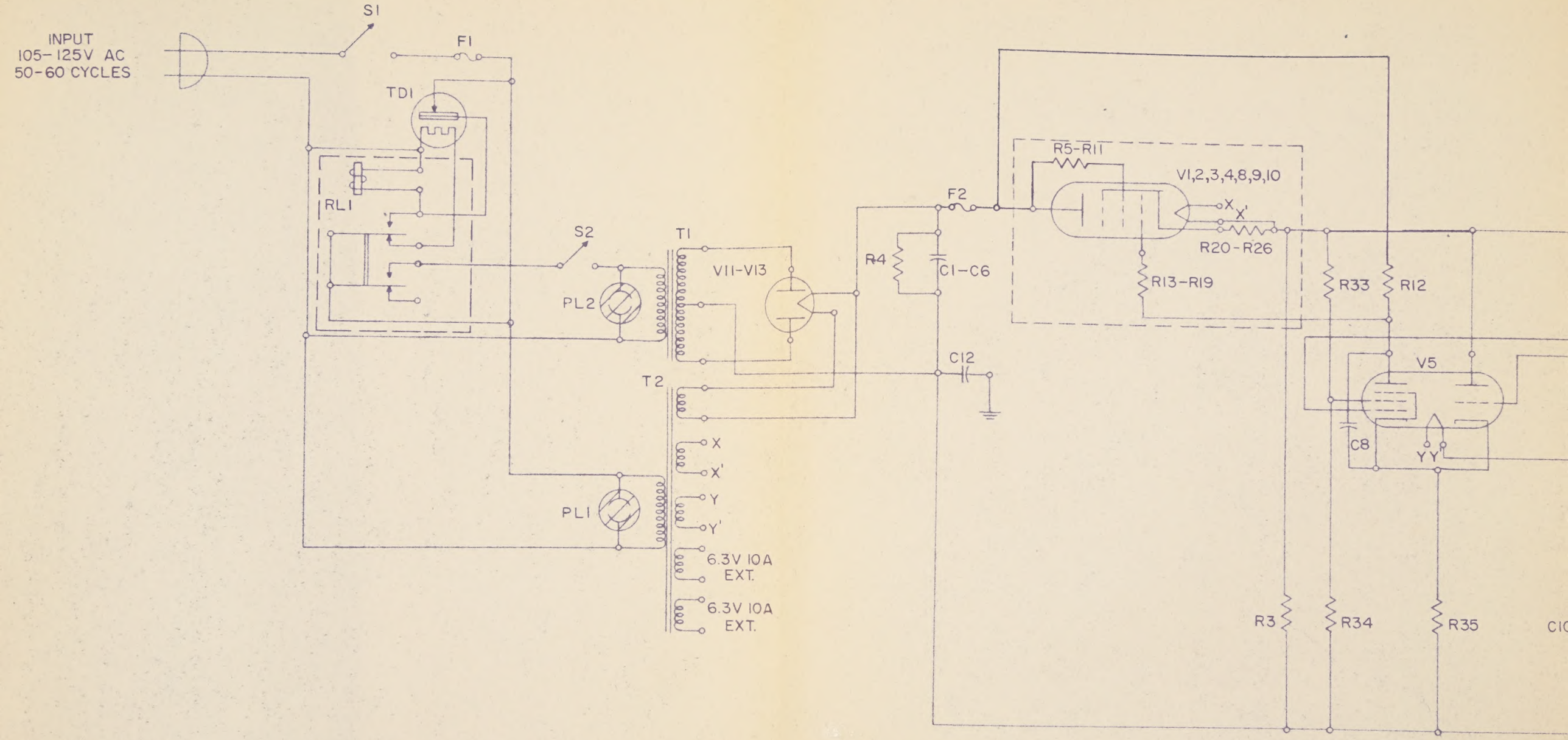
R25	- 47 Ohm	1 watt
R26	- 47 Ohm	1 watt
R27	- 680 K	1 watt
R28	- 560 K	1 watt
R29	- 100 K	1 watt
R30	- 150 K	1 watt
R31	- 56 K	1 watt
R32	- 470 K	1 watt
R33	- 100 K	1 watt
R34	- 150 K	1 watt
R35	- 82 K	1 watt
R36	- 82 K	1 watt

R11 - Relay DPDT

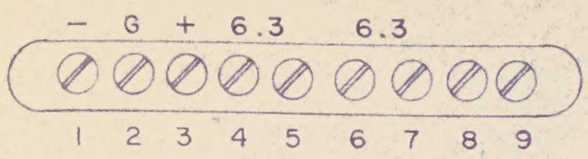
T1 - Transformer 100-500
T2 - Transformer 100-500

TD1 - 11N1030T Time Delay

V1 - 6SN7
V2 - 6SN7
V3 - 6SN7
V4 - 6SC7
V5 - 6V6
V6 - 1N42T
V7 - 5R4GY/GZ32
V8 - 6080
V9 - 6550
V10 - 6550
V11 - 5U4GB
V12 - 5U4GB
V13 - 5U4GB

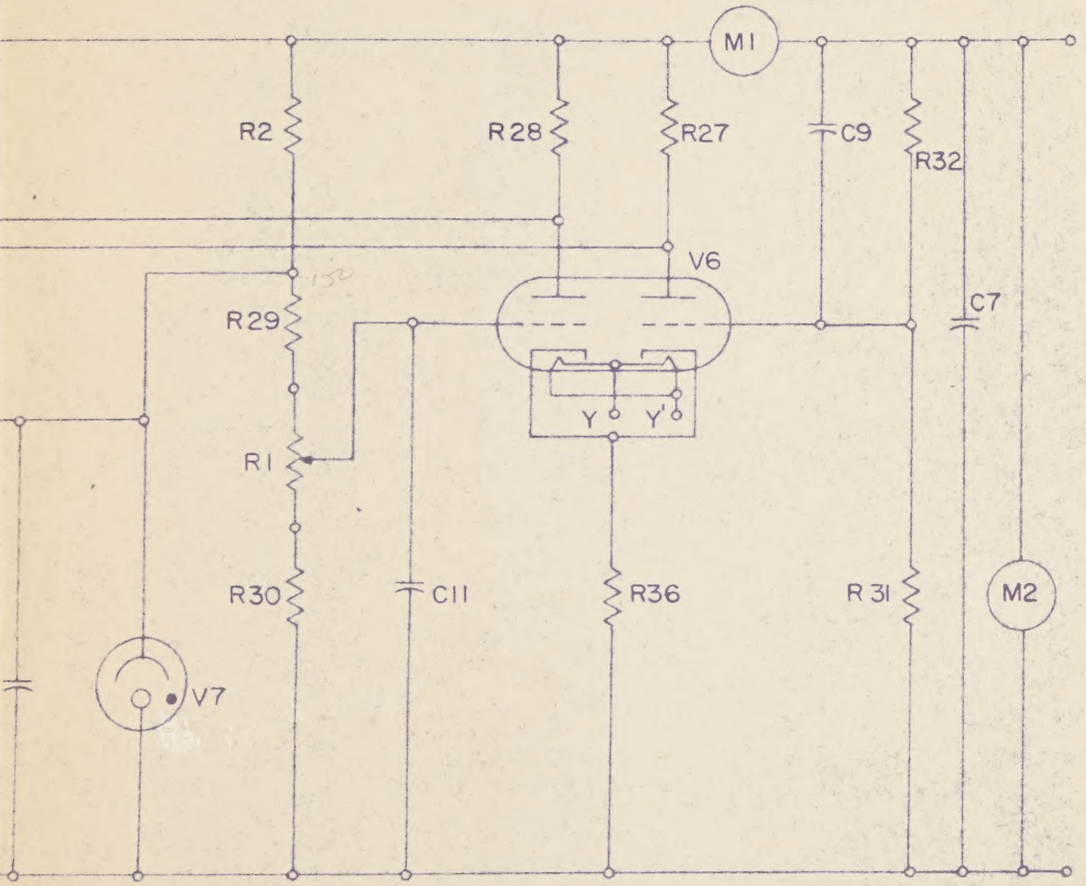

INPUT
105-125V AC
50-60 CYCLES
S1
F1
TD1
RL1
S2
PL2
T1
V11-V13
T2
X
X'
Y
Y'
PL1
6.3V 10A
EXT.
6.3V 10A
EXT.
F2
R4
C1-C6
C12
R5-R11
V1,2,3,4,8,9,10
X
X'
R20-R26
R13-R19
R33
R12
V5
C8
Y
Y'
R3
R34
R35

TERMINAL STRIP



VOLTAGE RANGE

195–305V 600MA
6.3VAC 10 AMPS
6.3VAC 10 AMPS



M1,M2 – KR6M ONLY

KEPCO LABORATORIES			
FLUSHING NEW YORK			
ITEM	MODEL	DATE	DRAWING NO
POWER SUPPLY	KR6 KR6M	7-11-55	S – KR6 KR6M – 01
	DR. BY BB	CK BY Jack	SHEET 1 OF 1